**Lesson 8 Activity:**

**Joining 3 or More Tables**

For every request, show the code for the query, any code calling it, the results below, and a listing of the records so we can see what happened to the data.

1. Display all records and fields for the Cars table.  
   A screenshot of a computer

   Description automatically generated
2. Display all records for the CarBuyers table.  
   A computer screen shot of a computer

   Description automatically generated
3. Display all records for the CarPurchases table.  
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4. Car Recall Phase 1: Use the Cars table to find all Hyundai, Honda, and Toyota Vehicles.  
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5. Car Recall Phase 2: Starting with the query created in #4, add an Inner Join with the CarPurchases table to find the purchases that involved the specified Makes. List as much info about the purchase, as well as the Make, Model, Year, VIN.  
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   Description automatically generated
6. Car Recall Phase 3: Starting with the query created in #5, add another Inner Join with the CarBuyers table to add the buyers’ contact info.  
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7. Group Discussion and Response: 3 customers in our grocery store have all gotten sick. We want to find all possible information that can connect our 3 customers that got sick. How would you solve the following issue? (Explain in your own words.  Do not try to write the SQL Code, because you do not have the exact data for this scenario.)   Break down the steps and list out factors that these customers could have in common.
   1. Find the customers' unique numbers: Each customer has a special number, like an ID in school. We need to find out the IDs of the three customers who got sick.
   2. When did they go shopping? We need to check when these customers made their purchases to see if they shopped around the same time.
   3. Did they buy the same thing? We'll look at the list of things each person bought. We can do this by combining two lists: one that shows all the purchases and another that shows what was bought in each purchase. We want to see if there's any item all three customers bought.
   4. Look for what's in common: We'll dig into the details of what they bought to see if there's anything the same across all their purchases, like if they all bought the same brand of a product or a product from the same place.
   5. Check any special notes: We'll look at any extra notes about their purchases to see if there's a clue there, like if someone wrote down that something seemed off about what they bought.